

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2830	544/114, 544/238, 544/239, 514/236.5, 514/252.02, 514/252.03, 514/252.04, 514/252.05, 514/252.06	US-PGPUB; USPAT	OR	OFF	2005/10/19 14:55
L2	1831	CDK2	US-PGPUB; USPAT	OR	OFF	2005/10/19 14:53
L3	39	I1 and I2	US-PGPUB; USPAT	OR	OFF	2005/10/19 14:53
L4	2130	544/114, 544/238, 544/239, 514/236.5, 514/252.02, 514/252.03, 514/252.04, 514/252.05, 514/252.06	USPAT	OR	OFF	2005/10/19 14:55

chain bonds :

1-8 4-7 5-18 6-19 9-10 10-11 12-13 13-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 1-8 2-3 3-4 4-5 4-7 5-6 5-18 9-10 10-11 12-13 13-14

exact bonds :

6-19

G2: [*1], [*2]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS

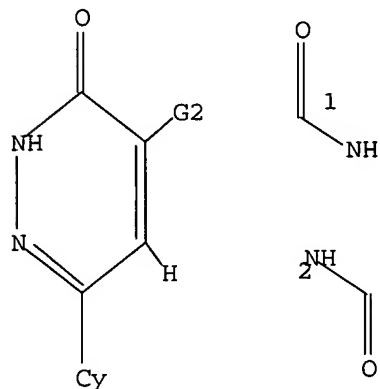
11:CLASS 12:CLASS 13:CLASS 14:CLASS 18:CLASS 19:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1

G2 [@1], [@2]

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 08:42:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 59 TO ITERATE

100.0% PROCESSED 59 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 720 TO 1640

PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

<10/19/2005>

Habte

=> s 11 sss full
FULL SEARCH INITIATED 08:42:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1173 TO ITERATE

100.0% PROCESSED 1173 ITERATIONS 103 ANSWERS
SEARCH TIME: 00.00.01

L3 103 SEA SSS FUL L1

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 08:42:52 ON 19 OCT 2005
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FILE COVERS 1907 - 19 Oct 2005 VOL 143 ISS 17
FILE LAST UPDATED: 18 Oct 2005 (20051018/ED)

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L4 24 L3

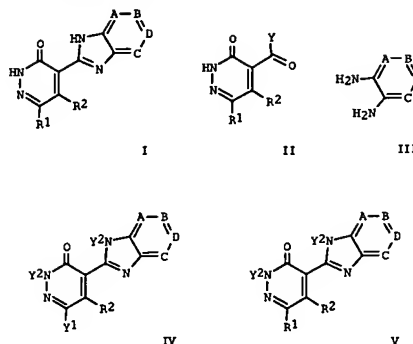
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L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:1004734 CAPLUS
 DOCUMENT NUMBER: 143:306326
 TITLE: Production of 4-benzimidazol-2-yl-pyridazin-3-one derivatives and use thereof in medicaments
 INVENTOR(S): Schoenafinger, Karl; Hoelder, Sven; Will, David; Williams, Matter, Hans; Mueller, Guenther; Bossart, Martin
 PATENT ASSIGNEE(S): Aventis Pharma Deutschland G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 126 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

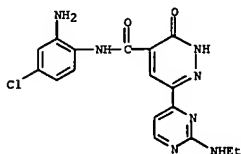
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005085230	A1	20050915	WO 2005-EP2179	20050302
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L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

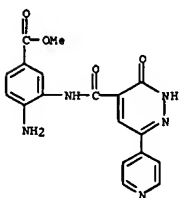


AB The invention relates to compds. I [A = CR₄, N; B = CR₄, N; D = CR₅, N; E = CR₆, N; R₁ = halogen, un-, monosubstituted C1-10-alkyl, heterocyclyl, aryl, heteroaryl (optionally substituted with halogen, CN, NO₂, OR₇, COR₇, CO₂R₇, OC(O)R₇, NR₇R₈, NHCOR₇, CONR₇R₈, NHCSR₇, CSNR₇R₈, SR₇, SOR₇, SO₂R₇, NHSO₂R₇, SO₂NR₇R₈, O-SO₂R₇, SO₂-OR₇, aryl, heteroaryl, heterocycle, CF₃, OCF₃]; R₂ = H, C1-10-alkyl; R₃, R₄, R₅, R₆ = H, halogen, CN, NO₂, CH₂R₈, CH₂NH₂, CH₂NH(C1-6-alkyl), CH₂N(C1-6-alkyl)₂, CH₂OH, CH₂O(C1-6-alkyl), OR₈, COR₈, CO₂R₈, OC(O)R₈, NR₇R₈, NHCOR₈, CONR₇R₈, NHCSR₈, CSNR₇R₈, SR₈, SOR₈, SO₂R₈, NHSO₂R₈, SO₂NR₇R₈, O-SO₂R₈, SO₂-OR₈, (un)substituted aryl, heteroaryl, heterocycle, CF₃, OCF₃; R₇, R₈ = H, un-monosubstituted C1-10-alkyl, C2-10-alkenyl, C2-10-alkynyl, heterocyclyl, aryl, heteroaryl; aryl = 5- to 10-membered aromatic mono- or bicyclic ring; heteroaryl = 5- to 10-membered aromatic mono- or bicyclic heterocycle with one or more heteroatoms - N, O, S; heterocycle = 5- to 10-membered non-aromatic mono- or bicyclic ring with one or more heteroatoms - N, O, S; in addition that up to three of A, B, D, E can equal N simultaneously; etc.] in addition to the physiol. compatible salts thereof, methods for the production of said compds. and the use thereof as medicaments. The procedure for the preparation of I comprises: reaction of pyridazinone II [Y = H, leaving group] with diamine III whereby cyclization takes place (a) in the presence of an acid or H₂O removing medium when Y = leaving group or (b) through oxidation, especially in the presence of O₂, when Y = H. Alternatively, I can be prepared from pyridazin-3-one IV [Y₁ = halogen, B(OH)₂, Sn(C1-10-alkyl)₃; Y₂ = H, protecting group] via palladium-catalyzed coupling with R₁Z [Z = halogen, B(OH)₂, B(C1-10-alkyl)₂, Sn(C1-10-alkyl)₃, Zn(C1-10-alkyl)] followed by

L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 deprotection of V (Y₂ = protecting group). Thus, 4-(6-(trifluoromethyl)-1H-benzimidazol-2-yl)-6-(pyridin-4-yl)-2H-pyridazin-3-one [I; A = B = E = CH, D = C-CF₃, R₁ = 4-pyridinyl, R₂ = H] was prepd. from 3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazin-4-carboxylic acid via chlorination with SOCl₂ in (MeOCH₂)₂, followed by amination with 4-(trifluoromethyl)benzene-1,2-diamine in (MeOCH₂)₂ contg. Et₃N and cyclocondensation of the amide in AcOH. Said compds. are kinase inhibitors, particularly inhibitors of kinase GSK-3β (glycogen synthase kinase-3β). The enzyme inhibitory activity of I [A = B = E = CH, D = C-CF₃, R₁ = 4-pyridinyl, R₂ = H] was detd. [IC₅₀ = 16 nM].
 IT 864464-06-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation of; preparation of 4-benzimidazol-2-yl-pyridazin-3-one derivs. with GSK-3β inhibitory activity)
 RN 864464-06-2 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



IT 864464-01-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation or saponification/cyclocondensation of; preparation of 4-benzimidazol-2-yl-pyridazin-3-one derivs. with GSK-3β inhibitory activity)
 RN 864464-01-7 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



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L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

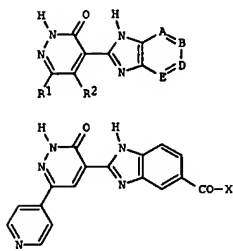
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:1002888 CAPLUS
 DOCUMENT NUMBER: 143:286437
 TITLE: Preparation of 4-benzimidazol-2-yl-pyridazin-3-ones as cyclin dependent kinase 2 inhibitors
 PATENT ASSIGNEE(S): Aventis Pharma S. A., Fr.
 SOURCE: Ger. Offen., 37 pp.
 CODEN: GWKXEX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004010207	A1	20050915	DE 2004-102004010207	20040302
WO 2005085231	A1	20050915	WO 2005-EP2569	20050218

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 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2004-102004010207A 20040302
 GI



AB Title compds. I [A = CR3, N; B = CR4, N; D = CR5, N; E = CR8, N; R3, R4,

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:411321 CAPLUS
 DOCUMENT NUMBER: 140:423683
 TITLE: Preparation of pyridazinones as protein Tau phosphorylation inhibitors, their drugs and pharmaceutical compositions containing them for treatment, in particular, of central and peripheral nervous system diseases
 INVENTOR(S): Lesuisse, Dominique; Halley, Franck; Baudoin, Bernard; Rooney, Thomas; Hoelder, Sven; Naumann, Thorsten; Tiraboschi, Gilles
 PATENT ASSIGNEE(S): Aventis Pharma Sa, Fr.
 SOURCE: Fr. Demande, 65 pp.
 CODEN: FRCKBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2847253	A1	20040521	FR 2002-14443	20021119
CA 2506022	AA	20040603	CA 2003-2506022	20031119
WO 2004046130	A1	20040603	WO 2003-EP12949	20031119

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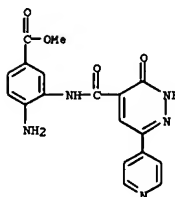
WO 2004046117 A1 20040603 WO 2003-EP12950 20031119
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US 2004176377 A1 20040909 US 2003-715358 20031119
 US 2005026918 A1 20050203 US 2003-715556 20031119
 EP 1581505 A1 20051005 EP 2003-715372 20031119
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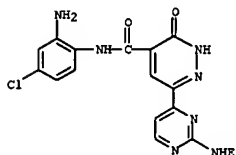
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 WO 2003-483169 P 20030107
 WO 2003-EP12950 W 20031119

OTHER SOURCE(S): MARPAT 140:423683
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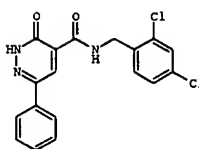
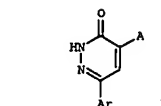
L4 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 R5 = H, halo, CN, etc.; R1 = halo, alkyl; R2 = H, alkyl; R8 = H, alkyl, alkenyl, etc.) and their pharmaceutically acceptable salts and formulations were prepd. For example, sapon. of Me ester II (X = OMe) afforded claimed carboxylic acid II (X = OH). In cyclin dependent kinase 2 inhibition assays, 3-examples of compds. I exhibited IC50 values ranging from 0.026-0.214 µM.
 IT 864464-01-7P 864464-06-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation); RACT (Reactant or reagent)
 (preparation of benzimidazolylpyridazinones as cyclin dependent kinase 2 inhibitors)
 RN 864464-01-7 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



RN 864464-06-2 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

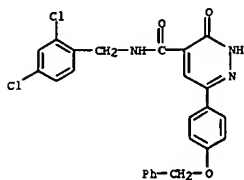


L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

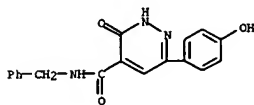


AB Title compds. I [wherein A = CONHR, or NHCOR; R = (un)substituted heteroaryl/aryl/alkyl, hetero/aryl, fused hetero/aryl with cycloalkyl, etc.; Ar = (un)substituted aryl, Ph, pyridinyl and their racemates, enantiomers, diastereomers, mixts., tautomers and pharmaceutically acceptable salts] were prepared as protein Tau phosphorylation inhibitors. Three standard pharmaceutical compds. are given. For example, II was prepared by acylation of 3-Oxo-6-phenyl-2,3-dihydropyridazine-4-carboxylic acid with 2,4-dichlorobenzylamine. Selected invention compds. I inhibited phosphorylation of protein Tau with an IC50 < 100 µM. Thus, I and their pharmaceutical compds. are useful as kinase inhibitors and for treatment, in particular, of central and peripheral nervous system diseases (no data).
 IT 691848-78-8P, N-(2,4-Dichlorobenzyl)-3-oxo-6-[4-(benzyloxy)phenyl]-2,3-dihydropyridazine-4-carboxamide 691848-77-8P, N-Benzyl-3-oxo-6-[4-(hydroxy)phenyl]-2,3-dihydropyridazine-4-carboxamide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of pyridazinones as protein Tau phosphorylation inhibitors for treating central and peripheral nervous system diseases)
 RN 691848-75-6 CAPLUS
 CN 4-Pyridazinocarboxamide, N-[(2,4-dichlorophenyl)methyl]-2,3-dihydro-3-oxo-6-[4-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691848-77-8 CAPLUS
CN 4-Pyridinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

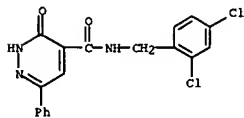


IT 691848-21-2P, N-(2,4-Dichlorobenzyl)-3-oxo-6-phen-4-yl-2,3-dihydropyridazine-4-carboxamide 691848-24-5P, N-(2,4-Dichlorobenzyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-28-9P, N-Benzyl-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-31-4P, N-(4-Chlorobenzyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-33-6P, N-(2-Chlorobenzyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-36-9P, N-(2-(2,4-Dichlorophenyl)ethyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-38-4P, N-(2,4-Dichlorophenyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-41-6P, 3-Oxo-6-(pyridin-4-yl)-N-[(pyridin-4-yl)methyl]-2,3-dihydropyridazine-4-carboxamide 691848-43-8P, 3-Oxo-6-(pyridin-4-yl)-N-[3-(trifluoromethyl)benzyl]-2,3-dihydropyridazine-4-carboxamide 691848-45-0P, 3-Oxo-6-(pyridin-4-yl)-N-[4-(trifluoromethyl)benzyl]-2,3-dihydropyridazine-4-carboxamide 691848-47-2P, N-(3,5-Dichlorobenzyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-49-4P, 3-Oxo-6-(pyridin-4-yl)-N-(n-butyl)-2,3-dihydropyridazine-4-carboxamide 691848-51-8P, 3-[[[3-Oxo-6-(pyridin-4-yl)-2,3-dihydropyridazin-4-yl]carbonyl]amino]propionic acid ethyl ester 691848-53-0P, 3-Oxo-6-(pyridin-4-yl)-N-(pyridin-3-ylmethyl)-2,3-dihydropyridazine-4-carboxamide 691848-55-2P, 3-Oxo-6-(pyridin-4-yl)-N-[(pyridin-2-yl)methyl]-2,3-dihydropyridazine-4-carboxamide 691848-57-4P, N-(3,4-Dichlorobenzyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-

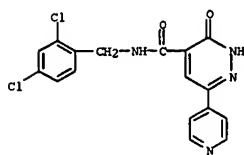
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

691849-29-3P, 3-Oxo-6-[4-(hydroxy)pyridin-3-yl]-N-(pyridin-2-ylmethyl)-2,3-dihydropyridazine-4-carboxamide 691849-30-6P, N-(3,4-Dichlorobenzyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-31-7P, N-(4-Morpholin-4-yl)benzyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-32-8P, N-(4-Hydroxybenzyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-33-9P, 2-(2,4-Dichlorophenyl)-N-[3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazin-4-yl]acetamide 691849-34-0P, N-(2,4-Dichlorobenzyl)-3-oxo-6-(pyrimidin-4-yl)-2,3-dihydropyridazine-4-carboxamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein Tau phosphorylation inhibitor; prepn. of pyridazinones as protein Tau phosphorylation inhibitors for treating central and peripheral nervous system diseases)

RN 691848-21-2 CAPLUS
CN 4-Pyridinecarboxamide, N-[(2,4-dichlorophenyl)methyl]-2,3-dihydro-3-oxo-6-phenyl- (9CI) (CA INDEX NAME)



RN 691848-24-5 CAPLUS
CN 4-Pyridinecarboxamide, N-[(2,4-dichlorophenyl)methyl]-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

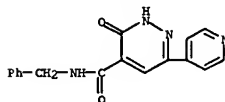


RN 691848-28-9 CAPLUS
CN 4-Pyridinecarboxamide, 2,3-dihydro-3-oxo-N-(phenylmethyl)-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

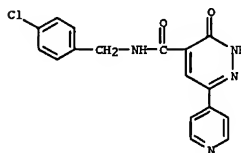
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

carboxamide 691848-59-6P, N-(4-Morpholin-4-yl)benzyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-67-6P, N-(4-Hydroxybenzyl)-3-oxo-6-(pyridin-4-yl)-2,3-dihydropyridazine-4-carboxamide 691848-79-0P, N-(2,4-Dichlorobenzyl)-3-oxo-6-[4-(hydroxy)phenyl]-2,3-dihydropyridazine-4-carboxamide 691848-81-4P, N-(2,4-Dichlorobenzyl)-3-oxo-6-(3-benzyl-4-hydroxyphenyl)-2,3-dihydropyridazine-4-carboxamide 691848-89-2P, N-(2,4-Dichlorobenzyl)-3-oxo-6-(pyridin-2-yl)-2,3-dihydropyridazine-4-carboxamide 691849-07-7P, 3-Oxo-6-[4-(hydroxy)phenyl]-N-(pyridin-4-ylmethyl)-2,3-dihydropyridazine-4-carboxamide 691849-08-8P, 3-Oxo-6-[4-(hydroxy)phenyl]-N-[3-(trifluoromethyl)benzyl]-2,3-dihydropyridazine-4-carboxamide 691849-09-9P, 3-Oxo-6-[4-(hydroxy)phenyl]-N-[4-(trifluoromethyl)benzyl]-2,3-dihydropyridazine-4-carboxamide 691849-10-2P, N-(3,5-Dichlorobenzyl)-3-oxo-6-[4-(hydroxy)phenyl]-2,3-dihydropyridazine-4-carboxamide 691849-11-3P, 3-Oxo-6-[4-(hydroxy)phenyl]-N-(n-butyl)-2,3-dihydropyridazine-4-carboxamide 691849-12-4P, 3-Oxo-6-[4-(hydroxy)phenyl]-N-(pyridin-3-ylmethyl)-2,3-dihydropyridazine-4-carboxamide 691849-13-5P, 3-Oxo-6-[4-(hydroxy)phenyl]-N-(pyridin-2-ylmethyl)-2,3-dihydropyridazine-4-carboxamide 691849-14-6P, N-(3,4-Dichlorobenzyl)-3-oxo-6-[4-(hydroxy)phenyl]-2,3-dihydropyridazine-4-carboxamide 691849-15-7P, N-(4-Morpholin-4-yl)benzyl)-3-oxo-6-[4-(hydroxy)phenyl]-2,3-dihydropyridazine-4-carboxamide 691849-16-8P, N-(4-Hydroxybenzyl)-3-oxo-6-[4-(hydroxy)phenyl]-2,3-dihydropyridazine-4-carboxamide 691849-17-9P, N-(2,4-Dichlorobenzyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-18-0P, N-Benzyl-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-19-1P, N-(4-Chlorobenzyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-20-4P, N-(2-Chlorobenzyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-21-5P, N-[2-(2,4-Dichlorophenyl)ethyl]-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-22-6P, N-(2,4-Dichlorophenyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-23-7P, 3-Oxo-6-[4-(hydroxy)pyridin-3-yl]-N-(pyridin-4-ylmethyl)-2,3-dihydropyridazine-4-carboxamide 691849-24-8P, 3-Oxo-6-[4-(hydroxy)pyridin-3-yl]-N-[3-(trifluoromethyl)benzyl]-2,3-dihydropyridazine-4-carboxamide 691849-25-9P, 3-Oxo-6-[4-(hydroxy)pyridin-3-yl]-N-[4-(trifluoromethyl)benzyl]-2,3-dihydropyridazine-4-carboxamide 691849-26-0P, N-(3,5-Dichlorobenzyl)-3-oxo-6-[4-(hydroxy)pyridin-3-yl]-2,3-dihydropyridazine-4-carboxamide 691849-27-1P, 3-Oxo-6-[4-(hydroxy)pyridin-3-yl]-N-(n-butyl)-2,3-dihydropyridazine-4-carboxamide 691849-28-2P, 3-Oxo-6-[4-(hydroxy)pyridin-3-yl]-N-(pyridin-3-ylmethyl)-2,3-dihydropyridazine-4-carboxamide

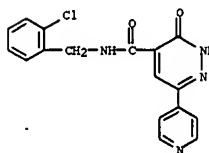
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691848-31-4 CAPLUS
CN 4-Pyridinecarboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

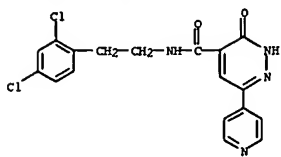


RN 691848-33-6 CAPLUS
CN 4-Pyridinecarboxamide, N-[(2-chlorophenyl)methyl]-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

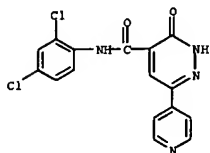


RN 691848-36-9 CAPLUS
CN 4-Pyridinecarboxamide, N-[2-(2,4-dichlorophenyl)ethyl]-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

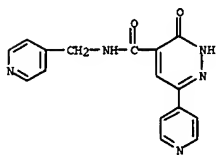
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691848-38-1 CAPLUS
CN 4-Pyridazinecarboxamide, N-(2,4-dichlorophenyl)-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

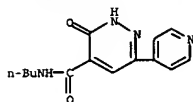


RN 691848-41-6 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-N-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

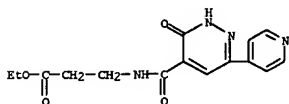


RN 691848-43-8 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-N-([3-(trifluoromethyl)phenyl]methyl)- (9CI) (CA INDEX NAME)

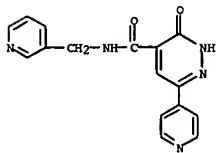
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



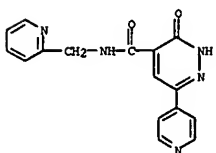
RN 691848-51-8 CAPLUS
CN 4-Pyridazinecarboxamide, N-([2,3-dihydro-3-oxo-6-(4-pyridinyl)-4-pyridazinyl]carbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 691848-53-0 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



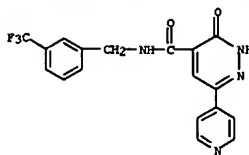
RN 691848-55-2 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-N-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



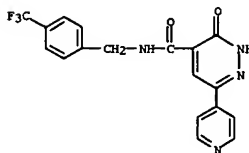
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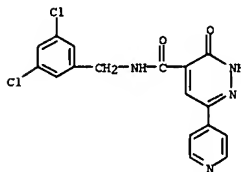
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691848-45-0 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-N-([4-(trifluoromethyl)phenyl]methyl)- (9CI) (CA INDEX NAME)



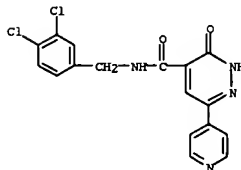
RN 691848-47-2 CAPLUS
CN 4-Pyridazinecarboxamide, N-([3,5-dichlorophenyl]methyl)-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)



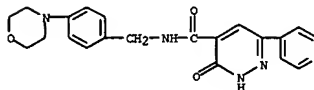
RN 691848-49-4 CAPLUS
CN 4-Pyridazinecarboxamide, N-butyl-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

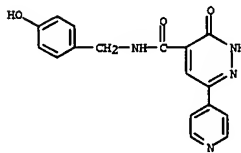
RN 691848-57-4 CAPLUS
CN 4-Pyridazinecarboxamide, N-([3,4-dichlorophenyl]methyl)-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 691848-59-6 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-N-([4-(4-morpholinyl)phenyl]methyl)-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

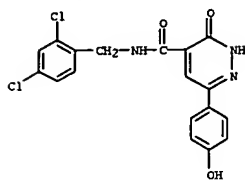


RN 691848-67-6 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-N-([4-hydroxyphenyl]methyl)-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

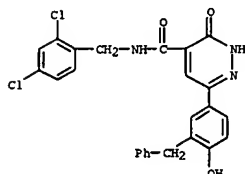


RN 691848-79-0 CAPLUS
CN 4-Pyridazinecarboxamide, N-(2,4-dichlorophenyl)-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

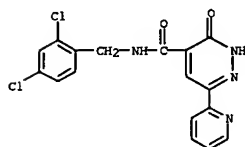
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691848-81-4 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((2,4-dichlorophenyl)methyl)-2,3-dihydro-6-(4-hydroxy-3-(phenylmethyl)phenyl)-3-oxo- (9CI) (CA INDEX NAME)



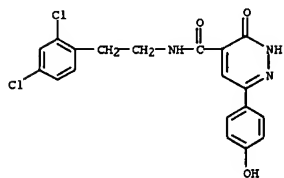
RN 691848-89-2 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((2,4-dichlorophenyl)methyl)-2,3-dihydro-3-oxo-6-(2-pyridinyl)- (9CI) (CA INDEX NAME)



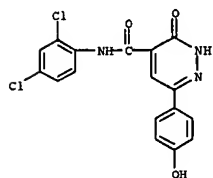
RN 691848-99-4 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((2,4-dichlorophenyl)methyl)-2,3-dihydro-3-oxo-6-(2-pyridinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

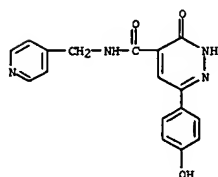
RN 691849-05-5 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((2,4-dichlorophenyl)ethyl)-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)



RN 691849-06-6 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((2,4-dichlorophenyl)-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

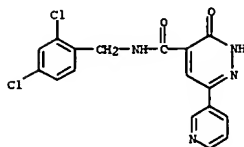


RN 691849-07-7 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo-N-((3,5-dichlorophenyl)methyl)- (9CI) (CA INDEX NAME)

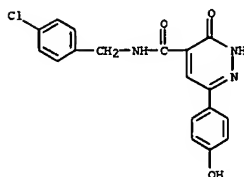


L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

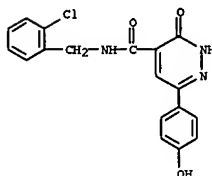
6-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 691849-03-3 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((4-chlorophenyl)methyl)-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

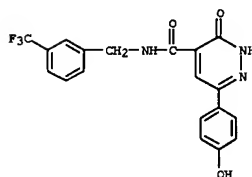


RN 691849-04-4 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((4-chlorophenyl)methyl)-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

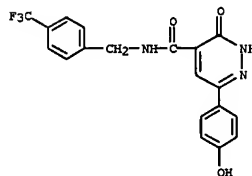


L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 691849-08-8 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo-N-((3-(trifluoromethyl)phenyl)methyl)- (9CI) (CA INDEX NAME)



RN 691849-09-9 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo-N-((3-(trifluoromethyl)phenyl)methyl)- (9CI) (CA INDEX NAME)

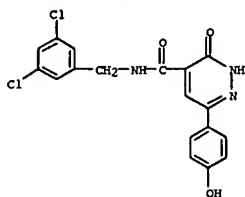


RN 691849-10-2 CAPLUS
 CN 4-Pyridazinecarboxamide, N-((3,5-dichlorophenyl)methyl)-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

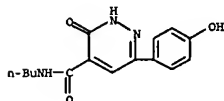
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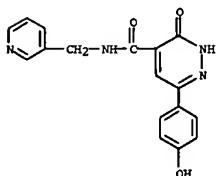
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-11-3 CAPLUS
CN 4-Pyridazinecarboxamide, N-[(3,4-dichlorophenyl)methyl]-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

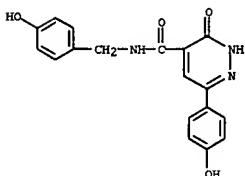


RN 691849-12-4 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

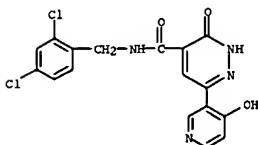


RN 691849-13-5 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo-N-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)

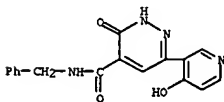
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-17-9 CAPLUS
CN 4-Pyridazinecarboxamide, N-[(2,4-dichlorophenyl)methyl]-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

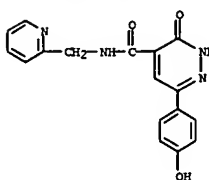


RN 691849-18-0 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

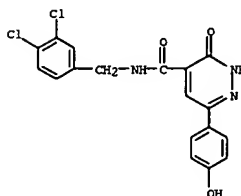


RN 691849-19-1 CAPLUS
CN 4-Pyridazinecarboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

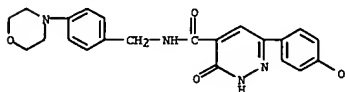
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-14-6 CAPLUS
CN 4-Pyridazinecarboxamide, N-[(3,4-dichlorophenyl)methyl]-2,3-dihydro-6-(4-hydroxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

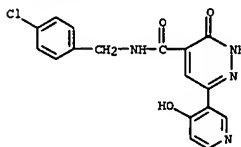


RN 691849-15-7 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-N-[(4-morpholinylphenyl)methyl]-3-oxo- (9CI) (CA INDEX NAME)

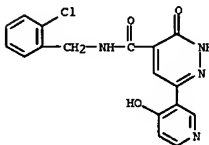


RN 691849-16-8 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxyphenyl)-N-[(4-hydroxyphenyl)methyl]-3-oxo- (9CI) (CA INDEX NAME)

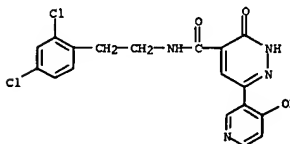
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-20-4 CAPLUS
CN 4-Pyridazinecarboxamide, N-[(2-chlorophenyl)methyl]-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

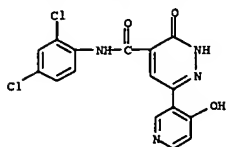


RN 691849-21-5 CAPLUS
CN 4-Pyridazinecarboxamide, N-[2-(2,4-dichlorophenyl)ethyl]-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

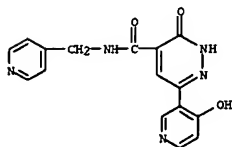


RN 691849-22-6 CAPLUS
CN 4-Pyridazinecarboxamide, N-(2,4-dichlorophenyl)-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

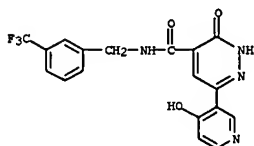
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-23-7 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo-N-(4-chlorophenylmethyl)- (9CI) (CA INDEX NAME)

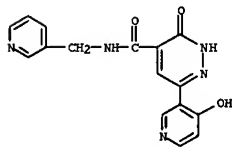


RN 691849-24-8 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo-N-[(trifluoromethyl)phenylmethyl]- (9CI) (CA INDEX NAME)

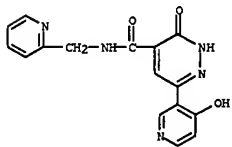


RN 691849-25-9 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo-N-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

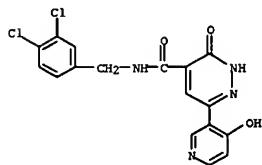
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-29-3 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo-N-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)

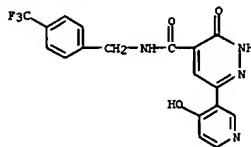


RN 691849-30-6 CAPLUS
 CN 4-Pyridazinecarboxamide, N-[(3,4-dichlorophenyl)methyl]-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

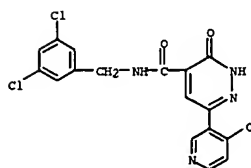


RN 691849-31-7 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo-N-[(4-morpholinyl)phenylmethyl]- (9CI) (CA INDEX NAME)

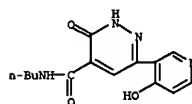
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-26-0 CAPLUS
 CN 4-Pyridazinecarboxamide, N-[(3,5-dichlorophenyl)methyl]-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

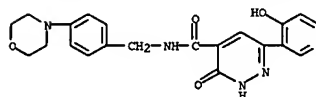


RN 691849-27-1 CAPLUS
 CN 4-Pyridazinecarboxamide, N-butyl-2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)

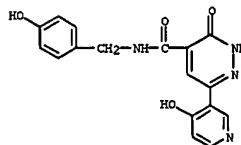


RN 691849-28-2 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-hydroxy-3-pyridinyl)-3-oxo-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

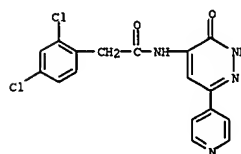
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 691849-32-8 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-N-[(4-hydroxyphenyl)methyl]-6-(4-hydroxy-3-pyridinyl)-3-oxo- (9CI) (CA INDEX NAME)



RN 691849-33-9 CAPLUS
 CN Benzeneacetamide, 2,4-dichloro-N-[2,3-dihydro-3-oxo-6-(4-pyridinyl)-4-pyridazinyl]- (9CI) (CA INDEX NAME)



RN 691849-34-0 CAPLUS
 CN 4-Pyridazinecarboxamide, N-[(2,4-dichlorophenyl)methyl]-2,3-dihydro-3-oxo-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)

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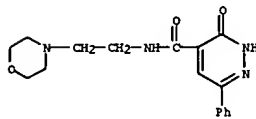
L4 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB The title compds. [1: wherein A1, A2 and A3 are each independently C3-8 cycloalkyl, C3-8 cycloalkenyl, a 5- to 14-membered nonarom. heterocyclic group, a C6-14 aromatic carbocyclic group, or a 5- to 14-membered aromatic heterocyclic group, any of which may be substituted; Q is O, S, or NH; Z is C or N; X1, X2 and X3 are each independently a single bond, optionally substituted C1-6 alkylene, optionally substituted C2-6 alkenylene, optionally substituted C2-6 alkynylene, NH, O, NHCO, CONH, SOO-2, or the like; R1 and R2 are each independently hydrogen or optionally substituted C1-6 alkyl, or alternatively R1 and R2 may be united in such a way that CR2-XR1 forms C=C; and R3 is hydrogen, optionally substituted C1-6 alkyl, C2-6 alkenyl, or C2-6 alkynyl, or alternatively R3 may unite with any atom on the ring A1 or A3 to form together with the atom an optionally substituted C5-8 carbocycle or an optionally substituted 5- to 8-membered heterocycle] or salts thereof, or hydrates of both are prepared. These compds. do not inhibit N-methyl-D-aspartic acid (NMDA) receptor but they are excellent inhibitors of α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor and/or kainic acid receptor. They are useful for the prevention or treatment of acute neurodegenerative diseases, acute cerebral vascular disorders, head injury, spinal cord injury, nerve disorders caused by low oxygen or sugar level, chronic neurodegenerative diseases, Alzheimer's disease, Parkinson's diseases, Huntington's chorea, amyotrophic lateral sclerosis, spinocerebellar degeneration, epilepsy, hepatic encephalopathy, peripheral nerve disorder, Parkinson's syndrome, spastic hemiplegia (paralysis), pain, neuralgia, schizophrenia, anxiety, drug dependence, nausea, vomiting, urination disorder, eye sight disorder caused by glaucoma, hearing disorders caused by antibiotics, food poisoning, infectious encephalomyelitis (including HIV encephalomyelitis), cerebral vascular dementia, dementia caused by meningitis, and nerve diseases. They are also used for treatment or prevention of demyelinating diseases including encephalitis, acute disseminated encephalomyelitis, multiple sclerosis, acute multiple neuritis, Guillain-Barre syndrome, chronic inflammatory demyelinating multiple nerve disorders, Marchiafava-Bignami disease, central bulbopontine breakdown, optic nerve myelitis, Devic's disease (neuromyelitis optica), Baló's disease, HIV myelopathy, HTLV myelopathy, progressive white substance encephalopathy or secondary demyelinating diseases (including central nervous system erythematodes, tuberous multiple polyarteritis, Sjogren syndrome, sarcoidosis, or cerebral angitis). Thus, to a solution of 75 mg 2-(2-iodophenyl)-4-(3-pyridyl)-2,3-dihydro-5H-[1]benzopyrano[4,3-c]pyridazin-3-one in 2 mL 1-methyl-2-pyrrolidone were added 55 mg Zn(CN)2 and 5 mg tetrakis(triphenylphosphine)palladium and stirred at 100° for 1 h to give 34 mg 2-(2-cyanophenyl)-4-(3-pyridyl)-2,3-dihydro-5H-[1]benzopyrano[4,3-c]pyridazin-3-one (II). It inhibited the AMPA-induced influx of Ca into rat fetal cerebral cortex nerve cells with IC50 of 0.02 μ M.

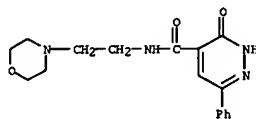
IT 404933-57-9P, 6-Phenyl-4-(((2-morpholinoethyl)amino)carbonyl)-2H-pyridazin-3-one 404933-59-1P, 6-Phenyl-4-(((2-morpholinoethyl)amino)carbonyl)-2H-pyridazin-3-one hydrochloride
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyridazinones and triazinones exhibiting excellent inhibitory activities against AMPA receptor and/or kainate receptor for treatment or prevention of acute or chronic neurodegenerative diseases)

RN 404933-57-9 CAPLUS

L4 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-N-[2-(4-morpholinyl)ethyl]-3-oxo-6-phenyl- (9CI) (CA INDEX NAME)



RN 404933-59-1 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-N-[2-(4-morpholinyl)ethyl]-3-oxo-6-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

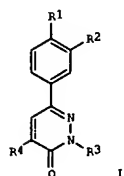
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:576914 CAPLUS
 DOCUMENT NUMBER: 131:228727
 TITLE: Preparation of pyridazine derivatives as interleukin 1 β production inhibitors
 INVENTOR(S): Ohkuchi, Masao; Kyotani, Yoshinori; Shigyo, Hiromichi; Yoshizaki, Hideo; Koshi, Tomoyuki; Kitamura, Takahiro; Matsuda, Takayuki; Oda, Soichi; Habata, Yuriko
 PATENT ASSIGNEE(S): Kowa Co., Ltd., Japan et al.
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9944995	A1	19990910	WO 1999-JP925	19990226
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2321254	AA	19990910	CA 1999-2321254	19990226
AU 9926414	A1	19990920	AU 1999-26414	19990226
AU 739431	B2	20011011		
EP 1061077	A1	20001220	EP 1999-906509	19990226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
NZ 506144	A	20011130	NZ 1999-506144	19990226
RU 2221790	C2	20040120	RU 2000-124879	19990226
US 6403586	B1	20020611	US 2000-622897	20000031
NO 2000004353	A	20000901	NO 2000-4353	20000901
HK 1035194	A1	20040820	HK 2001-105912	20010822
PRIORITY APPLN. INFO.: JP 1998-49396 A 19980302				
WO 1999-JP925 W 19990226				

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AB The title compds. I [R1 represents lower alkoxy, lower alkylthio or

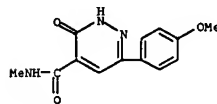
<10/19/2005>

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L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 halogeno; R2 represents H, lower alkoxy, lower alkylthio or halogeno; R3 represents OH, CN, halogeno, lower cycloalkyl, lower alkyl or lower alkenyl optionally substituted by an optionally substituted arom. group or optionally substituted carbamoyl; R4 represents COOH, lower alkoxy, carbonyl, optionally substituted carbamoyl, optionally substituted amino or optionally substituted ureido; and the dotted line means a single bond or a double bond between the carbon atoms at the 4- and 5-positions) are prepd. I are useful as preventives/remedies for immunol. diseases, inflammatory diseases, ischemic diseases, etc. In an in vitro test using cells, 2-cyclopropylmethyl-6-(4-methoxyphenyl)-4-methylcarbamoyl-2H-pyridazin-3-one showed IC50 of 0.038 μ M against lipopolysaccharide-induced interleukin 1 β prodn.

IT 243862-95-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyridazine derivs. as interleukin 1 β production inhibitors)

RN 243862-95-5 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-methoxyphenyl)-N-methyl-3-oxo- (9CI) (CA INDEX NAME)

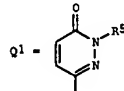
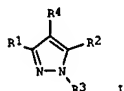


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:325927 CAPLUS
 DOCUMENT NUMBER: 130:338106
 TITLE: Preparation of pyrazole derivatives as adenosine A1 and A2 antagonists
 INVENTOR(S): Akahane, Atsushi; Kuroda, Satoru; Itani, Hiromichi
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9924424	A1	19990520	WO 1998-JP4892	19981028
V: CA, CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRIORITY APPL. INFO.: JP 1997-306167 A 19971107				
OTHER SOURCE(S): MARPAT 130:338106				
GI				



AB The title compds. I [R1 and R2 may be the same or different and each represents optionally substituted aryl; R3 represents hydrogen, lower alkyl, or optionally substituted ar(lower)alkyl; and R4 represents Q1 (wherein R5 represents optionally substituted ar(lower)alkyl or lower alkanoyl(lower)alkyl), etc.], useful as adenosine A1 and A2 antagonists (no data), are prepared I may serve as preventives and/or remedies for ischemic heart diseases such as angina pectoris, peripheral vascular diseases such as claudication, cerebral ischemia, migraine, diabetes, melancholia, Parkinson's disease, etc. (no data). For example, 3,5-diphenyl-4-[2-(3-methoxybenzyl)-3-oxo-2,3-dihydropyridazin-6-yl]pyrazole was prepared

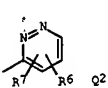
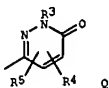
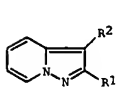
IT 224573-04-OP
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrazole derivs. as adenosine A1 and A2 antagonists)

RN 224573-04-0 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-6-(1-methyl-3,5-diphenyl-1H-pyrazol-4-yl)-3-oxo-, hydrazide (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:558055 CAPLUS
 DOCUMENT NUMBER: 127:262667
 TITLE: Preparation of pyrazolo[1,5-a]pyridine derivatives as adenosine antagonists and their pharmaceutical uses
 INVENTOR(S): Kuroda, Satoshi; Itani, Hiromichi; Akahane, Atsushi
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKCXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09216883	A2	19970819	JP 1996-24146	19960209
PRIORITY APPL. INFO.: JP 1996-24146 19960209				
OTHER SOURCE(S): MARPAT 127:262667				
GI				



AB The derivs. I [R1 = acyl; R2 = oxodihydropyridazinyl Q (R3 = H, lower alkyl, acyl-lower alkyl, acyl-lower alkanoyl-lower alkyl, (un)substituted heterocyclyl, (un)substituted lower aralkyl; R4 = H, acyl, cyano, heterocyclyl, lower hydroxyalkyl, (unprotected) amino; R5 = H, lower alkyl; R4 and/or R5 = substituent], pyridazinyl Q1 [R6 = halo, lower alkoxy, (un)substituted arylamino; R7 = acyl, lower hydroxyalkyl]] or their pharmaceutically acceptable salts are claimed. Also claimed are pharmaceuticals containing I or their salts or carriers. I show cognition-enhancing, analgesic, antidepressant, vasodilating, diuretic, cardiotonic, renal circulation-increasing, lipolysis-promoting, antisthmatic, insulin secretion-promoting, platelet aggregation-inhibiting effects, etc., and are especially useful as cardiac infarction inhibitors, antihypertensives, renal failure inhibitors, and diuretics. 3-Propionyl-2-phenylpyrazolo[1,5-a]pyridine (0.50 g), prepared by acylation of 2-phenylpyrazolo[1,5-a]pyridine with (EtCO)2O, was successively treated with CO(CO2Et)2 at 100° for 65 h then with H2NNH2.H2O at 125° for 8 h to give 0.42 g 3-(4-(2-isopropylidenehydrazino)carbonyl-1-5-methyl-3-oxo-2,3-dihydropyridazin-6-yl)-2-phenylpyrazolo[1,5-a]pyridine.

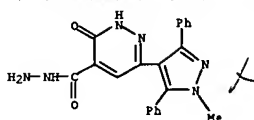
IT 195826-98-3P 195827-00-OP 195827-01-1P
 195827-02-2P 195827-03-3P 195827-04-4P
 195827-32-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrazolo[1,5-a]pyridine derivs. as adenosine antagonists and their pharmaceutical uses)

RN 195826-98-3 CAPLUS

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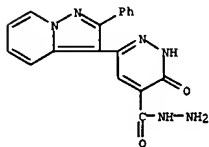
L4 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



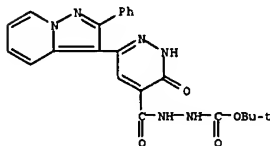
REFERENCE COUNT: 1
 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

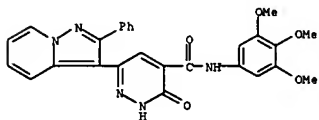
CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-3-oxo-6-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)-, hydrazide (9CI) (CA INDEX NAME)



RN 195827-00-0 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-3-oxo-6-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)-, 2-[(1,1-dimethylethoxy)carbonyl]hydrazide (9CI) (CA INDEX NAME)

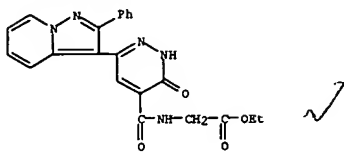


RN 195827-01-1 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)-N-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)

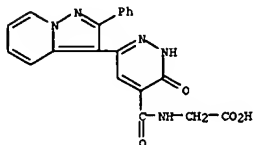


RN 195827-02-2 CAPLUS
 CN Glycine, N-[(2,3-dihydro-3-oxo-6-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)-4-pyridazinyl)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

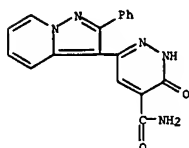
L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 195827-03-3 CAPLUS
CN Glycine, N-[[2,3-dihydro-3-oxo-6-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)-4-pyridazinyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 195827-04-4 CAPLUS
CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)- (9CI) (CA INDEX NAME)



RN 195827-32-8 CAPLUS
CN Carbamic acid, [2,3-dihydro-3-oxo-6-(2-phenylpyrazolo[1,5-a]pyridin-3-yl)-4-pyridazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:625966 CAPLUS
DOCUMENT NUMBER: 119:225966
TITLE: Preparative and biological activity of aryl substituted nitrogen containing heterocycles
INVENTOR(S): Linz, Guenter; Pieper, Helmut; Himmelsbach, Frank; Austel, Volkhard; Mueller, Thomas; Weisenberger, Johannes; Seewaldt-Becker, Elke
PATENT ASSIGNEE(S): Thomas, Dr. Karl, G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 47 pp.
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

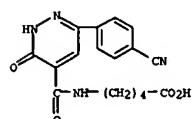
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 537696	A1	19930421	EP 1992-117507	19921014
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
DE 4134467	A1	19930422	DE 1991-4134467	19911018
US 5418233	A	19950523	US 1992-961135	19921014
CA 2080748	AA	19930419	CA 1992-2080748	19921016
NO 9204027	A	19930419	NO 1992-4027	19921016
AU 9227062	A1	19930422	AU 1992-27062	19921016
AU 662930	B2	19950921		
HU 62272	A2	19930428	HU 1992-3264	19921016
JP 05221992	A2	19930831	JP 1992-277578	19921016
ZA 9207994	A	19940418	ZA 1992-7994	19921016
US 5563268	A	19961008	US 1995-375084	19950119
PRIORITY APPL. INFO.:			DE 1991-4134467	A 19911018
			US 1992-961135	A3 19921014

OTHER SOURCE(S): MARPAT 119:225966
AB The preparation of title compds. with fibrinogen-binding, thromboxane, and blood platelet aggregation inhibitor activity is claimed. Thus, reaction of 6-(4-amidinophenyl)-4-[[4-(methoxycarbonyl)butyl]aminocarbonyl]-2-methyl-(2H)-pyridazin-3-one (preparation given) with LiOH.H2O in a mixture

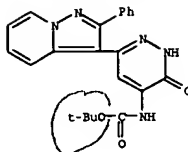
of THF-H2O gave 91.1 6-(4-amidinophenyl)-4-[[4-(4-carboxybutyl)aminocarbonyl]-2-methyl-(2H)-pyridazin-3-one. Similarly, a number of pyridazinone and pyrimidine derivs. were prepared and their biol. activity is described.

150594-47-1P
IT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of thromboxane formation inhibitor)

RN 150594-47-1 CAPLUS
CN Pentanoic acid, 5-[[[6-(4-cyanophenyl)-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]- (9CI) (CA INDEX NAME)

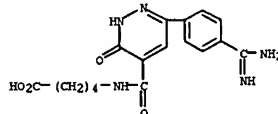


L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



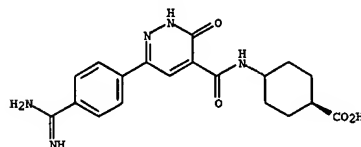
L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

IT 150594-75-5P 150594-91-5P 150595-00-9P
150595-14-5P 150595-30-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and thromboxane formation inhibiting activity of)
RN 150594-75-5 CAPLUS
CN Pentanoic acid, 5-[[[6-(4-(aminoininomethyl)phenyl)-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]- (9CI) (CA INDEX NAME)

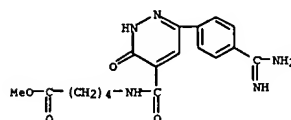


RN 150594-91-5 CAPLUS
CN Cyclohexanecarboxylic acid, 4-[[[6-(4-(aminoininomethyl)phenyl)-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 150595-00-9 CAPLUS
CN Pentanoic acid, 5-[[[6-(4-(aminoininomethyl)phenyl)-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

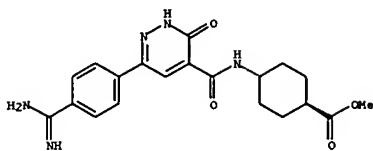


RN 150595-14-5 CAPLUS
CN Cyclohexanecarboxylic acid, 4-[[[6-(4-(aminoininomethyl)phenyl)-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]-, methyl ester, hydrochloride, trans- (9CI) (CA INDEX NAME)

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Habte

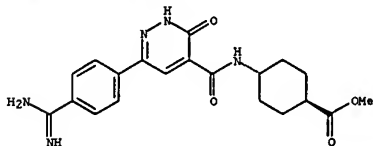
L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Relative stereochemistry.



● x HCl

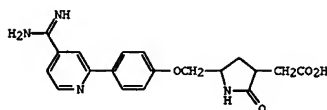
RN 150595-38-3 CAPLUS
CN Cyclohexanecarboxylic acid, 4-[[[6-[[4-(aminoiminomethyl)phenyl]-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]-, methyl ester, trans- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:517098 CAPLUS
DOCUMENT NUMBER: 119:117098
TITLE: Preparation of 2-pyrrolidinone-3-acetates and analogs as cell aggregation inhibitors
INVENTOR(S): Austel, Volkhard; Eisert, Wolfgang; Himmelsbach, Frank; Linz, Guenter; Mueller, Thomas; Pieper, Helmut; Weisenberger, Johannes
PATENT ASSIGNEE(S): Thomas, Dr. Karl, G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 73 pp.
CODEN: EPXKXW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

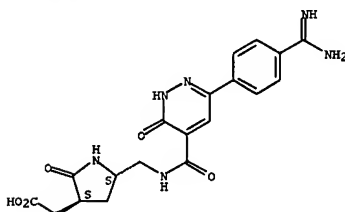
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 528369	A2	19930224	EP 1992-113877	19920814
EP 528369	A3	19930421		
EP 528369	B1	19991124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
DE 4127404	A1	19930225	DE 1991-4127404	19910819
AT 186906	E	19991215	AT 1992-113877	19920814
CA 2076311	AA	19930220	CA 1992-2076311	19920818
NO 9203235	A	19930222	NO 1992-3235	19920818
AU 9221119	A1	19930225	AU 1992-21119	19920818
AU 654372	B2	19941103		
JP 06025227	A2	19940201	JP 1992-219149	19920818
ZA 9206205	A	19940218	ZA 1992-6205	19920818
IL 102847	A1	19961114	IL 1992-102847	19920818
US 5455348	A	19951003	US 1993-173603	19931223
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S): MARPAT 119:117098				
G1				



AB EYAX1XZK3X4X5B [A = (substituted) bivalent (oxo)alkyleneimino; B = NH2, C:(NH)NH2, NHC:(NH)NH2, etc.; E = CO2H, alkoxy carbonyl, etc.; X1 = bond, alkylene; X2 = bond, O, NH, SO2NH, etc.; X3, X5 = (hetero)cycloalkylene, (hetero)arylene, etc.; X4 = bond, O, CH2, CO, NH, etc.; X3X4X5 = phenylene, (CH2)3-5, etc.; Y = alkylene, NHCH2, OCH2, etc.] were prepared

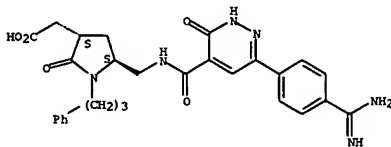
L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Thus, 4-(5-cyano-2-pyridyl)phenol (prepn. given) was condensed with (3S,5S)-3-[(tert-butyloxycarbonyl)methyl]-5-[(methanesulfonyloxy)methyl]-2-pyrrolidinone and the product converted in 2 steps to title compd. (3S,5S)-I which had E050 of 0.06 μ M against collagen-induced platelet aggregation in vitro.
IT 149354-60-9P 149354-62-1P 149354-79-0P
149355-41-9P 149355-53-3P 149377-23-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as cell aggregation inhibitor)
RN 149354-60-9 CAPLUS
CN 3-Pyrrolidineacetic acid, 5-[[[6-[[4-(aminoiminomethyl)phenyl]-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]methyl]-2-oxo-, (3S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



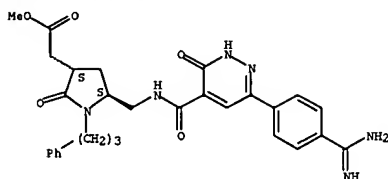
RN 149354-62-1 CAPLUS
CN 3-Pyrrolidineacetic acid, 5-[[[6-[[4-(aminoiminomethyl)phenyl]-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]methyl]-2-oxo-1-(3-phenylpropyl)-, (3S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 149354-79-0 CAPLUS
CN 3-Pyrrolidineacetic acid, 5-[[[6-[[4-(aminoiminomethyl)phenyl]-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]methyl]-2-oxo-1-(3-phenylpropyl)-, methyl ester, monohydrochloride, (3S-trans)- (9CI) (CA INDEX NAME)

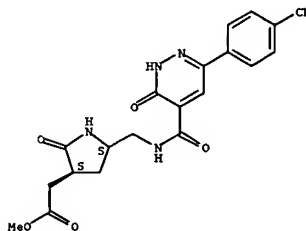
L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.



● HCl

RN 149355-41-9 CAPLUS
CN 3-Pyrrolidineacetic acid, 5-[[[6-[[4-(aminoiminomethyl)phenyl]-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]methyl]-2-oxo-, methyl ester, (3S-trans)- (9CI)
(CA INDEX NAME)

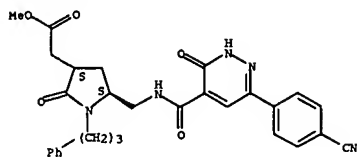
Absolute stereochemistry.



RN 149355-53-3 CAPLUS
CN 3-Pyrrolidineacetic acid, 5-[[[6-[[4-(aminoiminomethyl)phenyl]-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]methyl]-2-oxo-1-(3-phenylpropyl)-, methyl ester, (3S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

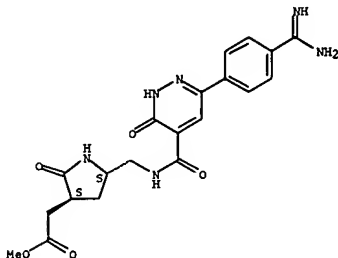
L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 149377-23-1 CAPLUS
 CN 3-Pyrrolidineacetic acid, 5-[[[6-[4-(aminomethyl)phenyl]-2,3-dihydro-3-oxo-4-pyridazinyl]carbonyl]amino]methyl]-2-oxo-, methyl ester, monohydrochloride, (3S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

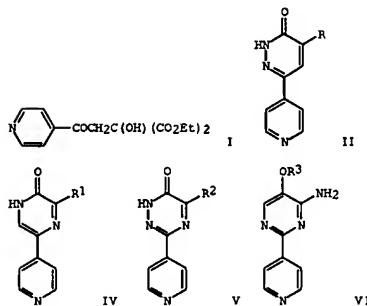


PAGE 2-A

● HCl

L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:206976 CAPLUS
 DOCUMENT NUMBER: 114:206976
 TITLE: Synthesis of aza analogs of amrinone
 AUTHOR(S): Singh, Baldev; Lesher, George Y.
 CORPORATE SOURCE: Dep. Med. Chem., Sterling Res. Group, Rensselaer, NY, 12144, USA
 SOURCE: Heterocycles (1990), 31(12), 2163-72
 CODEN: HETCYA; ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 114:206976
 GI

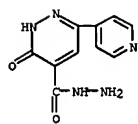


AB The aldol condensation product I of 4-acetylpyridine and CO(CO2Et)2 was converted to pyridazinecarboxylic acid hydrazide II (R = CONHNH2) (III). Curtius reaction of III gave aminopyridazinone II (R = NH2). The condensation of (4-pyridyl)glyoxal with aminomalonamide H2NCH(CONH2)2 yielded pyrazinecarboxamide IV (R1 = CONH2) which was transformed to aminopyrazinone IV (R1 = NH2) by the Hofmann reaction. Curtius reaction of 1,2,4-triazinone-5-carboxylic acid V (R2 = CO2H) gave aminotriazinone V (R2 = NH2). Demethylation of methoxypyrimidine VI (R3 = Me) gave pyrimidinol VI (R3 = H).

IT 80843-46-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and Curtius reaction of)

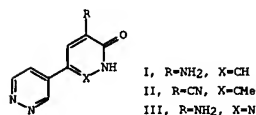
RN 80843-46-5 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-, hydrazide

L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

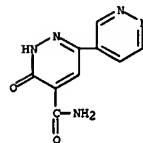
ACCESSION NUMBER: 1990:91460 CAPLUS
 DOCUMENT NUMBER: 112:91460
 TITLE: Pyridazines. Part 43. Pyridazine analogs of biologically active compounds. Part 5: Novel potential cardiotonics of the amrinone type
 AUTHOR(S): Haider, M.; Heinisch, G.; Offenberger, Sigrid
 CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Vienna, Vienna, A-1090, Austria
 SOURCE: Pharmazie (1989), 44(9), 598-601
 CODEN: PHARAT; ISSN: 0031-7144
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Preparation of a series of novel pyridazine derivs. structurally related to bipyrindine cardiotonics, starting from 4-methylpyridazine or 4-acetylpyridazine, resp., is described. As observed with I, II and III, an enhancement of in vitro cardiotonic activity was associated with the replacement of one or both pyridine subunit(s) in amrinone or miltirone by a 1,2-diazine system.

IT 125375-18-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and Hofmann degradation of)

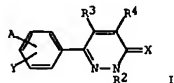
RN 125375-18-0 CAPLUS
 CN [3,4'-Bipyridazine]-5-carboxamide, 1,6-dihydro-6-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:497259 CAPLUS
 DOCUMENT NUMBER: 111:97259
 TITLE: Preparation of phenylpyridazinone derivatives as
 cardiotonics and antihypertensives
 INVENTOR(S): Sircar, Ilar Bristol, James A.
 PATENT ASSIGNEE(S): Warner-Lambert Co., USA
 SOURCE: U.S., 19 pp. Cont.-in-part of U.S. Ser. No. 407,973.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4734415	A	19880329	US 1983-477695	19830322
US 4353905	A	19821012	US 1981-302181	19810917
PRIORITY APPLM. INFO.:			US 1981-302181	A2 19810917
			US 1982-402488	A2 19820727
			US 1982-407973	A2 19820813

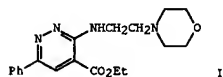
OTHER SOURCE(S): CASREACT 111:97259; MARPAT 111:97259
 GI



AB The title compds. [I; dotted line represents single or double bond; X = O, S; R2 = H, lower alkyl; R3 = H, lower alkyl; when dotted line represents a single bond, R3 = di(lower alkyl); R4 = H, lower alkyl; or when dotted line represents a double bond, R4 = H, lower alkylamino, cyano, OH, CH2OH, CONRSR6, etc.; R3R4 = atoms to complete a carbocycle of 3-6 atoms; R5, R6 = H, alkyl; Y = H, halo, lower alkyl, alkoxy etc.; A = R1Z; R1 = N-attached, (un)substituted, 5- or 6-membered heterocyclyl, optionally containing other hetero atoms; Z = bond, (CH2)n in the 4-position; n = 2-5] and their pharmaceutically acceptable salts, useful as cardiotonics and antihypertensives, were prepared

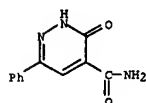
IT 97150-66-8
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of cardiotonic and antihypertensive)
 RN 97150-66-8 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3-oxo-, hydrazide (9CI) (CA INDEX NAME)

L4 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:114776 CAPLUS
 DOCUMENT NUMBER: 110:114776
 TITLE: 3-Aminopyridazine derivatives with atypical
 antidepressant, serotonergic and dopaminergic
 activities
 AUTHOR(S): Wermuth, Camille Georges; Schlewer, Gilbert;
 Bourguignon, Jean Jacques; Maghioros, Georges;
 Bouchet, Marie Jeanner Moire, Claudine; Kan, Jean
 Paul; Worms, Paul; Biziere, Kathleen
 CORPORATE SOURCE: Dep. Pharmacochim. Mol., Univ. Louis Pasteur,
 Strasbourg, 67084, Fr.
 SOURCE: Journal of Medicinal Chemistry (1989), 32(3), 528-37
 CODEN: JMCHAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 110:114776
 GI

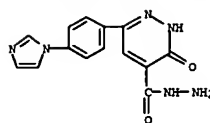


AB Forty-seven substituted analogs of minaprine, e.g., I, were synthesized and tested for their potential antidepressant, serotonergic, and dopaminergic activities. The structure-activity relationships show that dopaminergic and serotonergic activities can be dissociated. Serotonergic activity appears to be correlated mainly with the substituent in the 4-position of the pyridazine ring whereas the dopaminergic activity appears to be dependent on the presence, or in the formation, of a para-hydroxylated aryl ring in the 6-position of the pyridazine ring.

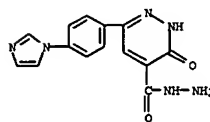
IT 87769-56-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and chlorination of)
 RN 87769-56-0 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-phenyl- (9CI) (CA INDEX NAME)



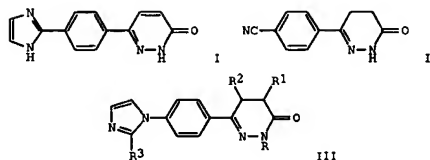
L4 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



IT 97150-66-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in preparation of pyridazinone cardiotonic and antihypertensive)
 RN 97150-66-8 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3-oxo-, hydrazide (9CI) (CA INDEX NAME)



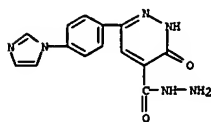
L4 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1987:598252 CAPLUS
 DOCUMENT NUMBER: 107:198252
 TITLE: Cardiotonic agents. 7. Inhibition of separated forms
 of cyclic nucleotide phosphodiesterase from guinea pig
 cardiac muscle by 4,5-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3(2H)-pyridazinones and related compounds.
 Structure-activity relationships and correlation with
 in vivo positive inotropic activity
 AUTHOR(S): Sircar, Ilar; Weishaar, Ronald E.; Kobylarz, Dianne;
 Moos, Walter H.; Bristol, James A.
 CORPORATE SOURCE: Dep. Chem., Warner-Lambert/Parke-Davis Pharm. Res.,
 Ann Arbor, MI, 48105, USA
 SOURCE: Journal of Medicinal Chemistry (1987), 30(11), 1955-62
 CODEN: JMCHAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 107:198252
 GI



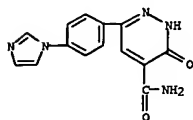
AB Imidazolylphenylpyrazolinone I was prepared from benzonitrile II. The structure-activity relationships of a series of 4,5-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3(2H)-pyridazinones, e.g., III (R = H, Me, CH2Ph, CH2CH2OH, CH2CH2OAc; R1 = H, Me, NH2, CONH2; R2 = H, Me, Et; R3 = H, Me, SH, SMe, SOMe, Et), I and related compds. were investigated for the in vivo inhibition of different forms of cyclic nucleotide phosphodiesterase (PDE) isolated from guinea pig ventricular muscle. With few exceptions, these 4,5-dihydropyridazinones were potent inhibitors of cardiac type III phosphodiesterase, which is a low Km, cAMP specific form of the enzyme. The inhibitory effects on cardiac type I and type II phosphodiesterase, both of which hydrolyze cAMP as well as cyclic GMP, were minimal. The most selective PDE III inhibitor was CI-930 III (R = R1 = R3 = H, R2 = Me) (IV), the 5-Me analog of Imazodan III (R = R3 = H) with an ED50 of 0.6 µM. The most potent inhibitor of PDE III was the 4,5,6,7-tetrahydrobenzimidazole analog of IV, with an ED50 of 0.15 µM. The structural features that impart both selectivity for inhibiting type III phosphodiesterase and potency of inhibition and correlations between in vitro PDE inhibitory potency, in vivo pos. inotropic potency, and physicochem. properties are discussed.

IT 97150-66-8 97150-67-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (phosphodiesterase inhibitory activity of)
 RN 97150-66-8 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3-oxo-, hydrazide (9CI) (CA INDEX NAME)

L4 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

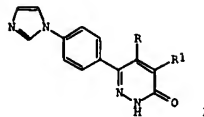


RN 97150-67-9 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

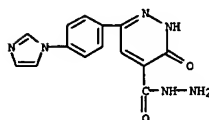
ACCESSION NUMBER: 1987:213880 CAPLUS
 DOCUMENT NUMBER: 106:213880
 TITLE: The reaction of pyridazinones with nucleophiles. An unusual reaction with cyanide
 AUTHOR(S): Badger, Edward W.; Moos, Walter H.
 CORPORATE SOURCE: Dep. Chem., Warner-Lambert/Parke-Davis Pharm. Res., Ann Arbor, MI, 48105, USA
 SOURCE: Journal of Heterocyclic Chemistry (1986), 23(5), 1515-17
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 106:213880
 GI



AB Studies on the synthesis of pyridazinone analogs of pyridone cardiotonics are reported. The synthetic scheme involves the reaction of pyridazinones and chloropyridazinones I (R = H, R1 = H, Cl) with nucleophiles. Addition occurred twice with cyanide as the nucleophile, thus providing a novel dicyanopyridazinone I (R = R1 = cyano).

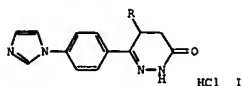
IT 97150-66-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Curtis rearrangement of)

RN 97150-66-8 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3-oxo-, hydrazide (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

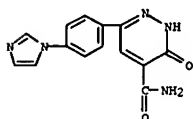
ACCESSION NUMBER: 1985:560462 CAPLUS
 DOCUMENT NUMBER: 103:160462
 TITLE: Cardiotonic agents. 2. Synthesis and structure-activity relationships of 4,5-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3(2H)-pyridazinones: a new class of positive inotropic agents
 AUTHOR(S): Sircar, Ilar Duell, Bradley L.; Bobowski, George; Bristol, James A.; Evans, Dale B.
 CORPORATE SOURCE: Dep. Chem., Warner-Lambert/Parke-Davis Pharm. Res., Ann Arbor, MI, 48105, USA
 SOURCE: Journal of Medicinal Chemistry (1985), 28(10), 1405-13
 CODEN: JMCMAH; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 103:160462
 GI



AB A series of 4,5-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3(2H)-pyridazinones and related compds. were synthesized and evaluated for pos. inotropic activity. Most members of this series produced dose-related increases in myocardial contractility that were associated with relative minor increases in heart rate and decreases in systemic arterial blood pressure. Introduction of a Me substituent at the 5-position of pyridazinone I (R = H) (II) produced the most potent compound in this series, I (R = Me) (III). Compound II is more potent than amrinone whereas compound III is more potent than milrinone. The inotropic effects of II and III are not mediated via stimulation of β -adrenergic receptors. Selective inhibition of cardiac phosphodiesterase fraction III represents the principal component of the pos. inotropic action of II and III.

IT 97150-67-9P
 RL: RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and inotropic activity of)

RN 97150-67-9 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3-oxo- (9CI) (CA INDEX NAME)



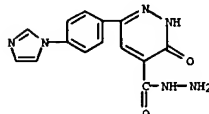
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L4 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

IT 97150-66-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation, hydrolysis, and inotropic activity of)

RN 97150-66-8 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-6-[4-(1H-imidazol-1-yl)phenyl]-3-oxo-, hydrazide (9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:62255 CAPLUS

DOCUMENT NUMBER: 102:62255

TITLE: Pyridazine derivative having a psychotropic action and medicines containing them

INVENTOR(S): Kan, Jean Paul; Biziere, Kathleen; Wermuth, Camille Georges

PATENT ASSIGNEE(S): Sanofi, Fr.

SOURCE: Fr. Demande, 12 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2540115	A1	19840803	FR 1983-1366	19830128
FR 2540115	B1	19850607		
US 4565814	A	19860121	US 1984-571696	19840118
CA 1218655	A1	19870303	CA 1984-445482	19840118
DK 8400259	A	19840729	DK 1984-259	19840120
DK 159969	B	19910107		
DK 159969	C	19910527		
ZA 8400500	A	19840829	ZA 1984-500	19840123
IL 70755	A1	19870331	IL 1984-70755	19840123
AU 8423728	A1	19840802	AU 1984-23728	19840124
AU 566352	B2	19871015		
ES 529108	B1	19841001	ES 1984-529108	19840124
EP 116494	A1	19840822	EP 1984-400157	19840125
EP 116494	B1	19880127		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 32220	E	19880215	AT 1984-400157	19840125
FI 8400349	A	19840729	FI 1984-349	19840127
FI 77453	B	19881130		
FI 77453	C	19890310		
NO 8400329	A	19840730	NO 1984-329	19840127
HU 33148	O	19841029	HU 1984-378	19840127
HU 192975	B	19870828		
DD 215542	A5	19841114	DD 1984-259679	19840127
SU 1274623	A3	19861130	SU 1984-3697653	19840127
FL 143994	B1	19880430	FL 1984-245932	19840127
CS 274405	B2	19910411	CS 1984-614	19840127
JP 59141565	A2	19840814	JP 1984-14185	19840128
US 4631280	A	19861223	US 1985-735580	19850520
DK 8906215	A	19891208	DK 1989-6215	19891208
DK 162218	B	19910930		
DK 162218	C	19920302		
DK 8906216	A	19891208	DK 1989-6216	19891208
DK 162219	B	19910930		
DK 162219	C	19920302		

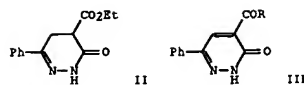
PRIORITY APPLN. INFO.:

FR 1983-1366 A 19830128
 FR 1983-18433 A 19831118
 US 1984-571696 A3 19840118
 EP 1984-400157 A 19840125

OTHER SOURCE(S): CASREACT 102:62255

L4 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

GI



AB 3-[2-(4-Morpholinyl)ethylamino]-6-phenyl-4-pyridazinecarbonitrile dihydrochloride (I) was prepared, and it showed antidepressant activity. The cyclocondensation of PhCOCH₂CH(CO₂Et)₂ with N2H₄ gave pyridazinone derivative II, which was brominated and dehydrobrominated to give ester III

(R

= OEt), the latter was converted to amide III (R = NH₂). The amide was treated with POCl₃ to give 3-chloro-6-phenyl-4-pyridazinecarbonitrile, and the product was treated with 4-(2-aminoethyl)morpholine and HCl to give I.

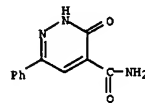
IT 87769-56-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and dehydration of, by phosphoryl chloride)

RN 87769-56-0 CAPLUS

CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:24642 CAPLUS

DOCUMENT NUMBER: 102:24642

TITLE: Pyridazine derivatives with psychotropic activity and intermediates

INVENTOR(S): Biziere, Kathleen; Kan, Jean Paul; Wermuth, Camille Georges

PATENT ASSIGNEE(S): Sanofi, Fr.

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

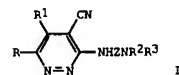
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 116494	A1	19840822	EP 1984-400157	19840125
EP 116494	B1	19880127		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
FR 2540115	A1	19840803	FR 1983-1366	19830128
FR 2540115	B1	19850607		
FR 2555178	A1	19850524	FR 1983-18433	19831118
FR 2555178	B1	19860418		
AT 32220	E	19880215	AT 1984-400157	19840125

PRIORITY APPLN. INFO.:

FR 1983-1366 A 19830128
 FR 1983-18433 A 19831118
 EP 1984-400157 A 19840125

OTHER SOURCE(S): CASREACT 102:24642

GI



AB 3-Amino-4-pyridazinecarbonitriles I [one of R and R₁ is H or alkyl, and the other is H, alkyl, cycloalkyl, Ph or substituted Ph, naphthyl, thienyl, 3-indolyl; 2 = CH₂CH₂, CH₂CHMe, (CH₂)₃; R₂ = H and R₃ = H, CH₂CH₂OH, or NR₂R₃ = 4-morpholinyl, 3-oxo-4-morpholinyl], which were prepared, showed psychotropic activity. 3-Chloro-6-phenyl-4-pyridazinecarbonitrile was heated with 4-(2-aminoethyl)morpholine in BuOH to give I (R = Ph, R₁ = H, 2 = CH₂CH₂, NR₂R₃ = 4-morpholinyl).

IT 87769-56-0P

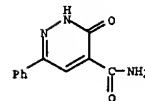
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with phosphoryl chloride)

RN 87769-56-0 CAPLUS

CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-phenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



IT 94011-51-5 94011-52-6 94011-53-7

94011-54-8 94011-55-9 94011-56-0

94011-57-1 94011-58-2 94011-59-3

94011-60-6 94011-61-7 94011-62-8

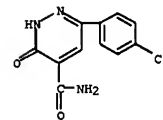
94011-63-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with phosphoryl chloride)

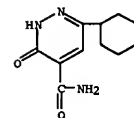
RN 94011-51-5 CAPLUS

CN 4-Pyridazinecarboxamide, 6-(4-chlorophenyl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



RN 94011-52-6 CAPLUS

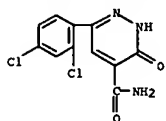
CN 4-Pyridazinecarboxamide, 6-cyclohexyl-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



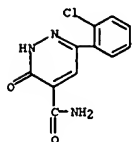
RN 94011-53-7 CAPLUS

CN 4-Pyridazinecarboxamide, 6-(2,4-dichlorophenyl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)

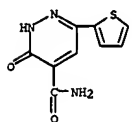
L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 94011-54-8 CAPLUS
 CN 4-Pyridazinecarboxamide, 6-(2-chlorophenyl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



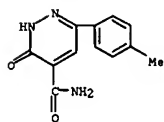
RN 94011-55-9 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-(2-thienyl)- (9CI) (CA INDEX NAME)



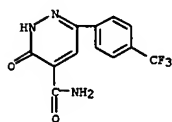
RN 94011-56-0 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-methoxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)

L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

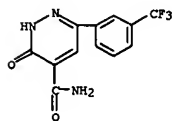
RN 94011-60-6 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-methylphenyl)-3-oxo- (9CI) (CA INDEX NAME)



RN 94011-61-7 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

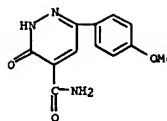


RN 94011-62-8 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

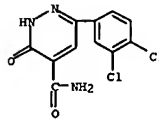


RN 94011-63-9 CAPLUS
 CN 4-Pyridazinecarboxamide, 6-(4-cyanophenyl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)

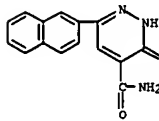
L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



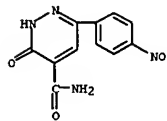
RN 94011-57-1 CAPLUS
 CN 4-Pyridazinecarboxamide, 6-(3,4-dichlorophenyl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



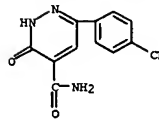
RN 94011-58-2 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(2-naphthalenyl)-3-oxo- (9CI) (CA INDEX NAME)



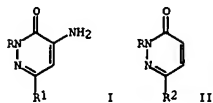
RN 94011-59-3 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-6-(4-nitrophenyl)-3-oxo- (9CI) (CA INDEX NAME)



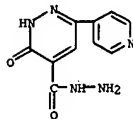
L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



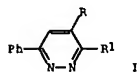
L4 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1984:630453 CAPLUS
 DOCUMENT NUMBER: 101:230453
 TITLE: Novel amination of 6-aryl-3(2H)-pyridazinones with hydrazine
 AUTHOR(S): Singh, Baldev
 CORPORATE SOURCE: Sterling-Winthrop Res. Inst., Rensselaer, NY, 12144, USA
 SOURCE: Heterocycles (1984), 22(8), 1801-4
 CODEN: HICYAM; ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 101:230453
 GI



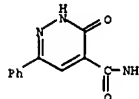
AB Aminopyridazinones I (R = H, Me; R1 = 4-pyridyl, 4-H2NCGH4, 4-HOC6H4) were prepared from II (R2 = 4-pyridyl, 4-AcNHCGH4, 4-HOC6H4). II (R = H, R2 = 4-pyridyl) was heated with N2H4 to give I (R = H, R1 = 4-pyridyl).
 IT 80843-46-5
 RL: RCT (Reactant); RACT (Reactant or reagent) (attempted rearrangement of, with hydrazine)
 RW 80843-46-5 CAPLUS
 CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-, hydrazide (9CI) (CA INDEX NAME)



L4 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1984:174757 CAPLUS
 DOCUMENT NUMBER: 100:174757
 TITLE: Synthesis of 4-amino-6-phenyl-3(2H)-pyridazinones: a general procedure
 AUTHOR(S): Sircar, Ila
 CORPORATE SOURCE: Dep. Chem., Warner-Lambert/Parke-Davis Pharm. Res., Ann Arbor, MI, 48105, USA
 SOURCE: Journal of Heterocyclic Chemistry (1983), 20(6), 1473-6
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 100:174757
 GI



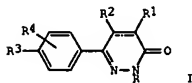
AB 3,4-Dichloro-6-phenylpyridazine (II) was prepared by treating 2-benzyl-4,5-dihydro-6-phenyl-3(2H)-pyridazinone with PCl5-POCl3. I was aminated to give II [R = NHMe2, NH(CH2)3NHMe2, NHBu, 4-methylpiperizino, morpholino, thiomorpholino; R1 = Cl] which were hydrolyzed with acid to II (R1 = OH).
 IT 87769-56-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and Hofmann degradation of)
 RW 87769-56-0 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-phenyl- (9CI) (CA INDEX NAME)



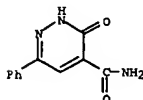
L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1983:594988 CAPLUS
 DOCUMENT NUMBER: 99:194988
 TITLE: Substituted 6-phenyl-3(2H)-pyridazinones useful as cardiotonic agents
 INVENTOR(S): Sircar, Ila
 PATENT ASSIGNEE(S): Warner-Lambert Co., USA
 SOURCE: U.S., 6 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4404203	A	19830913	US 1981-263643	19810514
US 4397854	A	19830809	US 1981-325719	19811130
PRIORITY APPLN. INFO.:			US 1981-263643	A2 19810514

 OTHER SOURCE(S): CASREACT 99:194988
 GI



AB The cardiotonic title compds. I [R = H, alkyl, PhCH2, Ph; R1 = H, R2 = CF3, PhCH2, cyano, CO2H, CONRS2 (R5 = H, alkyl), CH2NRS2, CH2OH, NRS2; R3 = H, R1 = CF3, cyano, CONRS2, CH2NRS2, NRS2; R3, R4 = H, halo, alkyl, alkoxy, HO, PhO, sulfonamido; dotted line represents single or double bond] were prepared. Thus, 89 g PhCOCH2CH2CO2H was cyclized with H2NNH2.H2O in EtOH to give 75.6 g 6-phenyl-4,5-dihydro-3(2H)-pyridazinone, which was dehydrogenated by treatment with Br to give 60 g 6-phenyl-3(2H)-pyridazinone (II). At 0.1 mg/kg II increased cardiac contractility by 9.2% in dogs.
 IT 87769-56-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and dehydration of)
 RW 87769-56-0 CAPLUS
 CN 4-Pyridazinecarboxamide, 2,3-dihydro-3-oxo-6-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:95571 CAPLUS

DOCUMENT NUMBER: 96:85571

TITLE: 4-Substituted 6-(pyridinyl)-3(2H)-pyridazinones,
intermediates in their production and their use as
cardiotonic agents

INVENTOR(S): Lesher, George Yohe; Dickinson, William Borden; Singh,
Baldev

PATENT ASSIGNEE(S): Sterling Drug Inc., USA

SOURCE: Fr. Demande, 36 pp.

CODEN: FROXEL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

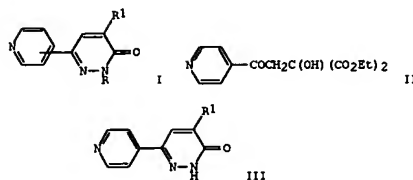
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2481284	A1	19811030	FR 1981-8251	19810424
US 4304776	A	19811208	US 1980-144697	19800428
US 4305943	A	19811215	US 1980-144563	19800428
US 4338446	A	19820706	US 1981-238483	19810226
US 4346221	A	19820824	US 1981-239566	19810302
AU 8169724	A1	19811105	AU 1981-69724	19810422
GB 2075500	A	19811118	GB 1981-12638	19810423
GB 2075500	B2	19840606		
ZA 8102652	A	19820526	ZA 1981-2652	19810423
SE 888566	A1	19811027	BE 1981-10209	19810427
DK 8101866	A	19811029	DK 1981-1866	19810427
FI 8101304	A	19811029	FI 1981-1304	19810427
NO 8101420	A	19811029	NO 1981-1420	19810427
SE 8102660	A	19811029	SE 1981-2660	19810427
ES 501665	A1	19830101	ES 1981-501665	19810427
CA 1166253	A1	19840424	CA 1981-376309	19810427
CA 1166254	A1	19840424	CA 1981-376317	19810427
NL 8102077	A	19811116	NL 1981-2077	19810428
JP 56167684	A2	19811223	JP 1981-65103	19810428
DE 3116861	A1	19820114	DE 1981-3116861	19810428
US 1980-144563	A		US 1980-144563	19800428
US 1980-144697	A		US 1980-144697	19800428

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): CASREACT 96:85571

GI

L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Cardiotonic (no data), pyridylpyridazinones I (R = H, alkyl, hydroxyalkyl, R1 = NH2, CONH2, CO2H, CONHCH2, alkoxycarbonyl) were prepared. Thus 4-acetylpyridine was treated with OC(CO2Et)2 to give II which was cyclized with N2H4 and dehydrated to give III (R1 = CO2Et). The ester was converted to the hydrazide and then the azide which was subjected to Curtius rearrangement, hydrolysis, and decarboxylation to give III (R1 = NH2).

IT 80843-46-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with nitrite)

RN 80843-46-5 CAPLUS

CN 4-Pyridazinecarboxylic acid, 2,3-dihydro-3-oxo-6-(4-pyridinyl)-, hydrazide (9CI) (CA INDEX NAME)

